

Project No. 3074
File: 3074.4

**SEPTEMBER MONTHLY PROGRESS REPORT
MONTANA DOT "PERFORMANCE PREDICTION MODELS"**

Monthly Progress	Susan Sillick, MT DOT
Report To:	Jon Watson, MT DOT
Agency:	Fugro-BRE
Contract No.:	HWY-30604-DT
Prepared By:	Harold Von Quintus
Date Prepared:	October 24, 2001

1.0 CURRENT MONTH WORK ACTIVITIES AND ACCOMPLISHMENTS

Task 1 – Literature Review

The literature review has been completed.

A draft memorandum was prepared and submitted to the Department that summarizes the models to be considered within this project. All distress prediction models being considered by and those that are being incorporated into the 2002 Design Guide under NCHRP 1-37A, as well as all of the distress prediction models that are being used in development of the NHI Course on Introduction to Mechanistic-Empirical Design were included in the memorandum.

This memorandum will be updated when the calibration and validation of the 2002 Design Guide distress prediction models is complete.

Task 2 – Review of MT DOT Pavement-Related Data

Project personnel have obtained and extracted traffic data, materials data, climatic data, soils data, and other information from all of the a LTPP sites located in Montana and in adjacent States. A list of missing data was provided to the Department previously for coordination with LTPP in obtaining this data. Extraction and review of the LTPP data for use on this project will continue with time.

Task 3 – Establish the Experimental Factorials

A draft experimental factorial and sampling/testing plan was provided to the Department. This experimental factorial identified all sites included in the monitoring program: existing LTPP sites in Montana and in adjacent States, as well as the test sections that will be added to the program this year.

Task 4 – Develop Work Plan for the Monitoring and Testing Plans

A draft of the monitoring and testing work plan was completed and submitted for review to the Department.

Task 5 – Presentation of Work Plan to MT DOT

Preparation for a meeting with the technical panel to review the results completed to-date under Phase I. The Phase I meeting is planned for October 2.

Task 6 – Implement Work Plan – Data Collection

Planning for the field testing and sampling of the materials and soils for the non-LTPP sites.

Task 7 – Data Analyses and Calibration of Performance Prediction Models

No activity.

Task 8 – Final Report and Presentation of Results

No activity.

2.0 PROBLEMS/RECOMMENDED SOLUTIONS

No problems were encountered during last month and none are anticipated for next month.

3.0 NEXT MONTH'S WORK PLAN

The activities planned for next month are identified and discussed below.

- The work plan will be presented to the Department on October 2nd as part of Task 5.
- The specific locations of the non-LTPP test sites will be identified and marked as part of Task 6. Photographs of each site will be taken and provided to the Department.
- The attached table lists the 12 sites that were identified initially to fill in the experimental factorial.
- Project personnel will initiate the field-testing and materials sampling plan for the non-LTPP test sites selected in coordination with the Department as part of Task 6.

4.0 FINANCIAL STATUS

Following is a summary of the estimated expenses incurred during the month of September. Accumulated expenses for the project, estimated through the end of the month are represented graphically in the attached line chart.

Cost Element	Previous Month's Cumulative Cost, \$	Current Monthly Expenditures (Estimated), \$	Cumulative Costs (Estimated), \$
Direct Labor	7,684	1,259	8,943
Overhead	10,988	1,801	12,789
Consultants/Subcontractors	4,050	0	4,050
Travel	3,253	0	3,253
Testing	0	0	0
Other Direct Costs	37	15	52
Fee	2,601	308	2,909
Total Costs	28,613	3,383	31,996

The following table provides a summary of the total expenditures by the Montana and FHWA fiscal years in comparison to the allocated funds for each fiscal year.

Montana DOT Fiscal Year				FHWA Fiscal Year			
Fiscal Year		Allocated Funds Cumulative, \$	Expenditures Cumulative, \$	Fiscal Year		Allocated Funds Cumulative, \$	Expenditures Cumulative, \$
6/1-6/30	2001	15,000	0*	6/1-9/30	2001	65,000	31,996
7/1-6/30	2002	218,969	31,996	10/1-9/30	2002	258,969	---
7/1-6/30	2003	348,969	---	10/1-9/30	2003	358,969	---
7/1-6/30	2004	388,969	---	10/1-9/30	2004	398,969	---
7/1-6/30	2005	428,969	---	10/1-9/30	2005	438,969	---
7/1-6/30	2006	498,969	---	10/1-9/30	2006	498,969	---
TOTAL		498,969	31,996			498,969	31,996

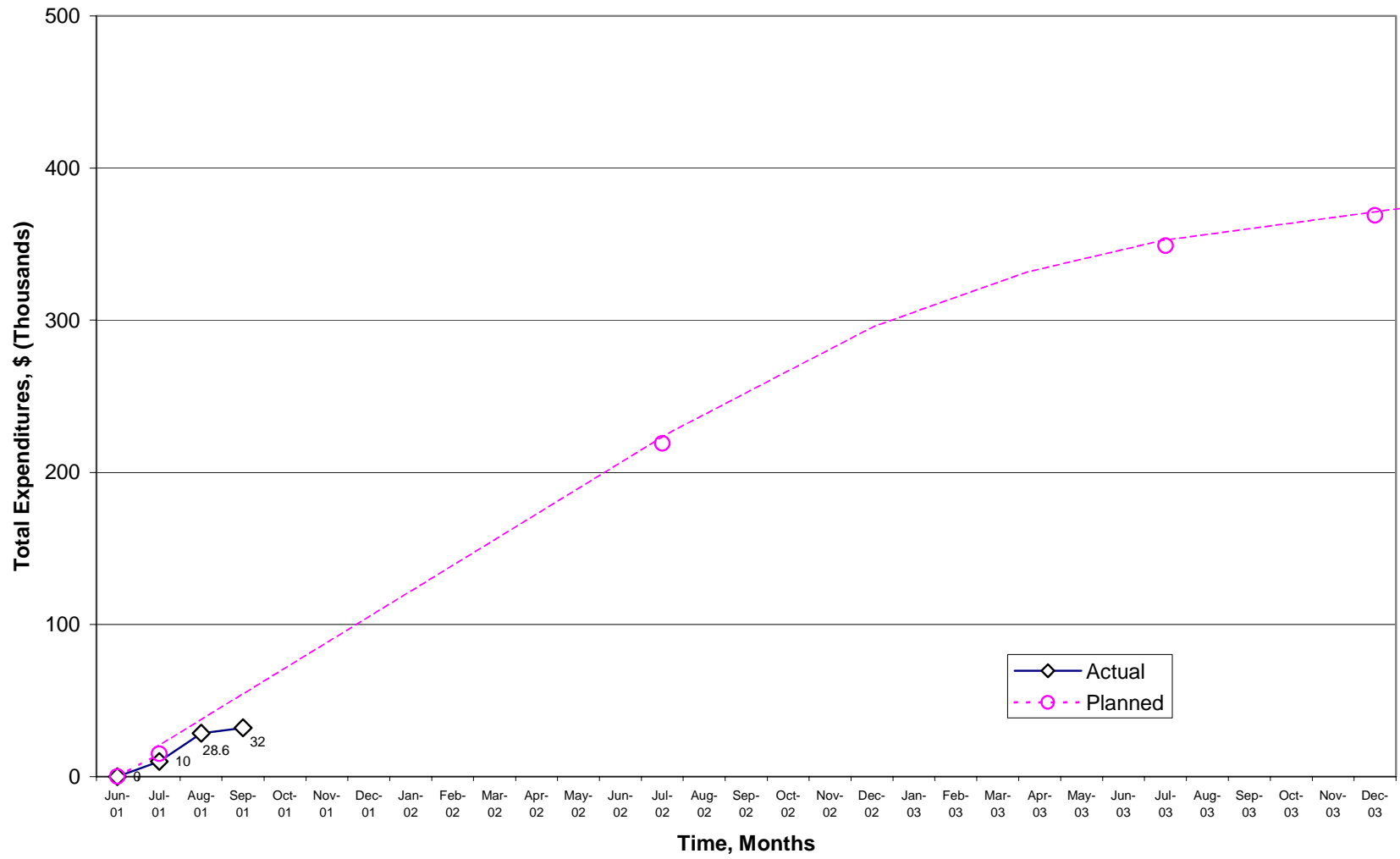
*June 2001 expenditures were combined with July 2001 expenditures.

CC: Brian Killingsworth, Fugro-BRE
 Starr Kohn, SME
 Dick Moore, P-B
 Amy Simpson, Fugro-BRE
 Weng-On Tam, Fugro-BRE

Monthly Progress Report - Financial Status

Contractor: Fugro-BRE
Montana DOT: "Performance Prediction Models"
Fugro-BRE Project No.: 3074

Contract No.: HWY-30604-DT



Potential CTB LTTP Sites

Location Name	Mark Date	Type	Road Name	Project Reference Post		Approx. Pave. Age, Years	Notes:
				Begin	End		
Beck Hill/Deerlodge	10/08/01	Pulverized	I-90	180.4	188.6	>1	
Perma County N	10/08/01	In-Place	S-382	6.3	17.7	5	
Condon N	10/08/01	Pulverized	P-83	31.4	47.7	5	
Silver City W	10/08/01	Pulverized	S-279	8.8	16.4	2	
Geyser E	10/09/01	In-Place	P-57	21.7	27.5	1	
Fort Belknap	10/09/01	New	P-1	430	446.3	10	
Wolf Point S	10/09/01	New	P-25	36.12	45.9	6	Use either one, but not both: Wolf Point or Vida – will be determined on 10/09/01 during site visit.
Vida N & S	10/09/01	New	P-25	27.78	36.12	6	Use either one, but not both: Wolf Point or Vida – will be determined on 10/09/01 during site visit.
Hammond NW	10/10/01	In-Place	N-23/P-23	92.3	108.5	7	
Lavinia W	10/10/01	New	N/P-14	137.5	142.2	10	
Roundup E	10/10/01	New	N/P-14	169.5	181.5	1	
East Helena E	10/10/01	Pulverized	P-8	49.86	53	2	Additional base material possibly added to level.

Locations are in order per the date they will be marked.

